

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/878,574

DATE: 12/21/2001

TIME: 15:29:25

Input Set : N:\Crf3\RULE60\09878574.txt

Output Set: N:\CRF3\12212001\I878574.raw

0290  
1/26

#2

0 <210> SEQ ID NO: 68789

W--> 1 <110> APPLICANT: Byrum, Joseph R.

W--> 3 La Rosa, Thomas J.

W--> 5 Thompson, Michael D.

W--> 9 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with

W--> 11 Plants

W--> 15 <130> FILE REFERENCE: 38-21(15401)B

W--> 17 <140> CURRENT APPLICATION NUMBER: 09/878,574

19 <141> CURRENT FILING DATE: 2001-12-21

W--> 21 <150> PRIOR APPLICATION NUMBER: 09/333,535

W--> 23 <151> PRIOR FILING DATE: 1999-06-14

W--> 27 <160> NUMBER OF SEQ ID NOS: 15775

31 <210> SEQ ID NO: 1

33 <211> LENGTH: 412

35 <212> TYPE: DNA

37 <213> ORGANISM: Glycine max

41 <223> OTHER INFORMATION: Clone ID: LIB3028-003-Q1-B1-B11

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53 tgtttcacgc gtagagacca ctcccttcga tggccagaag cctggaacct ctggtctccg 120

57 caagaagggt aaagtgttcg tgcaacctca ttacctccat aactttgttc agtcaacatt 180

61 caatgcatta actgtggaaa agtttagagg tgcaacgcta gttgtatctg gtgatggtcg 240

65 ttatttttca aaggaagcta ttcagattat aactaaaatg tcagcagcaa atggagtaag 300

69 acgtgtttgg attggtcaaa atggattgct ttcaactcct gcagtatctg ctgttatatg 360

73 tgaaaagagtt ggagctgatg gattcagggc aacaggtgca ttatactga ca 412

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81 <211> LENGTH: 400

83 <212> TYPE: DNA

85 <213> ORGANISM: Glycine max

89 <223> OTHER INFORMATION: Clone ID: LIB3028-005-Q1-B1-A11

93 <400> SEQUENCE: 2

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101 cataccgaac actcttcttc aatcaagcga aggtggtctc gattgcaagt gatccacgat 120

105 aactctacg ctccacaaaa ccttcaaacc caattccaca gaattcttct gcttcacat 180

109 gccaccaaag ccttttagact atgggtcaat aaatgaaaac gtgaaaaaaa gtcaatatgc 240

113 tgtcagaggt gaattatacc ttcgagcttc tgaaacttca gaaagagggc aaaaggatta 300

117 tctttactaa tgttggaac ccgcattgat tgggacagaa accaatgagc ttccctcccc 360

121 aagttgttgc ttgtgcca gctccattcc tacttgatga 400

127 <210> SEQ ID NO: 3

129 <211> LENGTH: 410

131 <212> TYPE: DNA

133 <213> ORGANISM: Glycine max

137 <223> OTHER INFORMATION: Clone ID: LIB3028-010-Q1-B1-C7

141 <400> SEQUENCE: 3

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149 ttcggtcttc aatcacctcg ttcgtgctcc cgaagatcct atcctcgggg taactgtcgc 120

153 ttagaagaaa gatccaagtc cagttaagct caacttgga gttggtgctt accgaactga 180

ENTERED

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157 ggaaggaaaa cctcttgttt tgaatgtagt gaggcgagtt gaacagcaac tcataaatga 240
161 cgtgtcacgc aacaaggaat atattccgat cgttgggctt gctgatttta ataaattgag 300
165 tgctaagctt atttttgggg ctgacagccc tgctattcaa gacaacaggg ttaccactgt 360
169 tcaatgcttg tctggaactg gttctttaac actttgcggt gaatttttgg 410
175 <210> SEQ ID NO: 4
177 <211> LENGTH: 339
179 <212> TYPE: DNA
181 <213> ORGANISM: Glycine max
185 <223> OTHER INFORMATION: Clone ID: LIB3028-012-Q1-B1-F10
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197 gaagggtgtc actgcccttg atcctagagc caatgatttt gatctcatgt atgaacaagt 120
201 taaagctctt aaggatggaa ttgctgttga aaaaccaatc tacaaccatg tcaactggtct 180
205 cctggatccc cctgagctca ttaaaccccc caaaatctta gtcattgaag gcttgcaccc 240
209 aatgtatgat tctcgggtca gagatctctt ggacttttagc atctacctag acattatcac 300
213 tgagggtcaaa ttcgctttgg aaattcagag agacatggc 339
219 <210> SEQ ID NO: 5
221 <211> LENGTH: 402
223 <212> TYPE: DNA
225 <213> ORGANISM: Glycine max
229 <223> OTHER INFORMATION: Clone ID: LIB3028-004-Q1-B1-C2
233 <400> SEQUENCE: 5
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241 aattggccgt ttggtagcca gagtggctct gcagagagac gatgttgaac tcgttgccgt 120
245 taacgaccct tcatcacca cggattacat gacatacatg tttaaatacg acagtgttca 180
249 tggacactgg aagcatcacg atgtcacctg taaggacgag aagacccttc tcttcggtga 240
253 caagccagtc actatTTTTTg gacacagaaa ccctgaagag atcccatggg ggtcaactgg 300
257 agctgacatc attgtttgagt ccaccggagt ttccaccgat aaggacaagg ccgccgcaca 360
261 tttgaagggt ggtgcaaaga aggttattat ttctgcccc ag 402
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269 <211> LENGTH: 344
271 <212> TYPE: DNA
273 <213> ORGANISM: Glycine max
277 <223> OTHER INFORMATION: Clone ID: LIB3028-009-Q1-B1-C6
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289 ggccagattc ggatccaacg gattgggaaa attttgccg ttgggaaccc aaattggctc 120
293 tgcaaagaca caatgttgaa ctgctcgccg taaacaaccc ttcatcacc accgattaca 180
297 tgacatacat gtttaaatac gacagtgttc atggacactg gaagcatcac gatgtcaccc 240
301 ttaaggacga gaacactctt ctgctcggtg acacgccagt cactatttgt ggacacaaac 300
305 cccctgaaaa tatccaggg ggtcaactg gacctgacat catt 344
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313 <211> LENGTH: 402
315 <212> TYPE: DNA
317 <213> ORGANISM: Glycine max
321 <223> OTHER INFORMATION: Clone ID: LIB3028-008-Q1-B1-F6
325 <400> SEQUENCE: 7
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333 tctctgtagc caaaccagcc cttcaggcaa atgggaaagg cttctctgaa ttctctggcc 120

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337 tccgaagctc atcaggcttc cttccctttt ctagaaaate ttcagaggat ttccattctg 180
341 tcattgcctt ccagacctat gcagttggaa gcagtggagg atacaagaag ggtgtgacag 240
345 aagcaaaaact gaaggttgcc ataaacgggt ttggaaggat tggaaggaaac ttcttgagg 300
349 gctggcaegg tcgcaaagac tccccctctg atgtcattgc catcaacgac accggcgggcg 360
353 tgaacaagc ctctcacctt ctcaaatacg attccatcct cc 402
359 <210> SEQ ID NO: 8
361 <211> LENGTH: 393
363 <212> TYPE: DNA
365 <213> ORGANISM: Glycine max
369 <223> OTHER INFORMATION: Clone ID: LIB3028-003-Q1-B1-D12
373 <400> SEQUENCE: 8
377 gtttcttaca aggtctact ctactgcttc accttctgct ctagaaaatt cagtgggtgat 60
381 acatggcttc ggctactctc tctgtagcca aaccagccct tcaggcaaat gggaaaggct 120
385 tctctgaatt ctctggcctc cgcagctcat caggcttctt tcccttttct agaaaatctt 180
389 cagaggattt ccattctgtc attgccttcc agacctatgc agttggaagc agtggaggat 240
393 acaagaaggg tgtgacagaa gcaaaactga aggttgccat aaacggattt ggaaggattg 300
397 gaaggaactt cttgaggtgc tggcacggtc gcaagactc ccctcttgat gtcattgcc 360
401 tcaacgacac cgttgggcgtg aaaaaagcct ctc 393
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411 <212> TYPE: DNA
413 <213> ORGANISM: Glycine max
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421 <400> SEQUENCE: 9
425 agaagctggc tgatctcagt ggaaaggggg tgaccacaat tatcggagga ggagattctg 60
429 ttgcagctgt ggagaaagta ggagttgcta gtgtcatgag ccacatatct actggtgggt 120
433 gtgccagttt ggagttattg gaaggcaaag agcttccagg agtccttgct ctcatgaag 180
437 ccgtcccagt tgccgtgtaa gacaattttc agcttggaaa atttttccat cctcagattt 240
441 cgtgtttgtc aatcttgtaa aagagcatat gttgtaggac ccttcggagt ctgttagtgt 300
445 aaattttatc atgcttgagt tattattggc ttcacacata aattgcgtgt aactgtaaac 360
449 cctggctgag agccataaat tcgaataaat cttttagttg ctgccaaaaa 410
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459 <212> TYPE: DNA
461 <213> ORGANISM: Glycine max
465 <223> OTHER INFORMATION: Clone ID: LIB3028-006-Q1-B1-C12
469 <400> SEQUENCE: 10
473 ggaatggacc aatgggagtg tttgagtttg acaagtttgc tgttggtaca gaggctattg 60
477 caaagaagct ggctgatctc agtggaaagg ggttgaccac aattatcgga ggaggagatt 120
481 ctggttcgac tgtggagaaa gtaggagttg ctagtgtcat gagccacata tctactgggt 180
485 gtggtgccag tttggagtta ttggaaggca aagagcttcc aggagtcctt gctctcgatg 240
489 aagccgtccc agttgccgtg taagacaatt ttcagcttgg aaaatttttc catcctcaga 300
493 tttcgggtgt gtcaatcttg taaaagagca tatgtgttag gacccttcgg agtctgttag 360
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503 <210> SEQ ID NO: 11
505 <211> LENGTH: 400
507 <212> TYPE: DNA
509 <213> ORGANISM: Glycine max
513 <220> FEATURE:

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Input Set : N:\Crf3\RULE60\09878574.txt

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515 <221> NAME/KEY: unsure  
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 519 <223> OTHER INFORMATION: unsure at all n locations  
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 533 gccgacctca acgtcccgcg cgacgacaac cagaacatca ccgacgacac cagaatccgc 120  
 537 gccgccattc ccaccatcaa acatctcatc caaaacggcg ccaaagtcac tctctccagc 180  
 541 cacttggggc ggccgaaggg tgtaactccc aaatacagct tggcgccctc tgtaccccg 240  
 545 ctttctgagc tcattggtat ccagattgtc aaggccgagg acagtattgg tccagaagta 300  
 549 gaaaagttgg tggcttctct tccagatgga ggtgttctcc ttctagaaaa tgtgaggttt 360  
 W--> 553 tacaangagg aagaaaagaa tgaccccgag catgcaaaaa 400  
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 563 <212> TYPE: DNA  
 565 <213> ORGANISM: Glycine max  
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 581 tcaaggctgt aaaggagatt gagcctgcat tgaagaaaca actcatcatt tccactgccc 120  
 585 tgatgactat tgggattgca attgttagtt ggattgcact cccaacttcc ttcactatct 180  
 589 tcaattttgg agttcagaaa gatgtcaaga attggcagct attcttgtgt gttgctgttg 240  
 593 gtctttgggc aggtcttatt attggatttg taactgagta ctatactagc aatgcatata 300  
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 613 <223> OTHER INFORMATION: Clone ID: LIB3028-012-Q1-B1-A6  
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 625 tcaaggctgt aaaggagatt gagcctgcat tgaagaaaca actcatcatt tccactgccc 120  
 629 tgatgactat tgggattgca attgttagtt ggattgcact cccaacttcc ttcactatct 180  
 633 tcaattttgg agttcagaaa gatgtcaaga attggcagct attcttgtgt gttgctgttg 240  
 637 gtctttgggc aggtcttatt attggatttg taactgagta ctatactagc aatgcatata 300  
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 673 agaagaaact tgggtggcaga caccatcggg tcaaaagagg ctacaaaaat gtgattgatg 120  
 677 aagctattcg tttgaattct attggtgagg agtcacattt ggcaattgaa actagtggac 180  
 681 atggagctct caaggaaaat cattggcttg atgatggcgc atacctaata gtcaagatct 240  
 685 taaataaact tgcttctgca agagcttctg gaaagggtgg tggaagtaag gttttgactg 300  
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693 aaaacccat 368
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725 agaagatctt ggccctctaa gcagcaaaga gcttgaatca cttgaaaggc agctagattc 180
729 gtctttgaag caaatcagat caataaggac ccaattcatg ctggatcagc tttctgatct 240
733 acaacgtaag gaacactttc taggtgagtc aaacagagat ctcagacaaa ggttggaaga 300
737 gtttcaaata aatccactcc aactgaatcc cagtgtctgaa gatatggggg atggacgcca 360
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773 aaggaatggg atcttcaaga aagctcatga actcagtgtt ctctgtgatg ccaagggttc 180
777 acttatcatg ttctctaaaa acaacaagat gcatgaatac attagccctg gcctcacgac 240
781 aaaaaggatc attgatcagt atcagaagac tttgggggat attgatctgt ggcgttctca 300
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805 <223> OTHER INFORMATION: Clone ID: LIB3028-003-Q1-B1-G10
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817 ccacacccaa ctgaagaagc aagagcccga attctacaga tccattctcg gaaaatgaat 120
821 gttcaccccg atgtcaactt tgaagaatta gctcgggtcca cagatgattt caatgcagca 180
825 caacttaaaag ctgtctgtgt tgaggctggc atgttggccc ttcgccgtga tgcaactgag 240
829 gtgaaccatg aggactttta tgaaggcatc atccaagtcc aagcaaagaa gaaagcaagc 300
833 ttgaattatt atgcataggc actcaacgca aggaaaaacg agcattgaag tttgacttgt 360
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843 <210> SEQ ID NO: 18
845 <211> LENGTH: 408
847 <212> TYPE: DNA
849 <213> ORGANISM: Glycine max
853 <223> OTHER INFORMATION: Clone ID: LIB3028-004-Q1-B1-A10
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865 ggaagatgaa tgttcaccca gatgtcaact ttgaagaact tgctcgggcc acagatgatt 120
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L:1 M:281 W: Numeric Fields not Ordered, <110> not ordered!.

L:9 M:281 W: Numeric Fields not Ordered, <120> not ordered!.

L:15 M:281 W: Numeric Fields not Ordered, <130> not ordered!.

L:17 M:281 W: Numeric Fields not Ordered, <140> not ordered!.

L:19 M:281 W: Numeric Fields not Ordered, <141> not ordered!.

L:21 M:281 W: Numeric Fields not Ordered, <150> not ordered!.

L:23 M:281 W: Numeric Fields not Ordered, <151> not ordered!.

L:27 M:281 W: Numeric Fields not Ordered, <160> not ordered!.

L:553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22

L:1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

L:1681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35

L:1713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37

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L:1773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37

L:1777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37

L:1781 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37

L:1785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37

L:1789 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37

L:1925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40

L:2325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48

L:2429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50

L:2681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56

L:2789 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58

L:2941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

L:2945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

L:2997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62

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L:3985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82

L:4485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93

L:4637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96

L:4829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100

L:6285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135

L:6289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135

L:6533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140

L:6589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141

L:7845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:169

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L:7941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:171  
L:8117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175  
L:8441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183  
L:9001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195  
L:9369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:203  
L:10245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:224  
L:10325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226  
L:15985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:357  
L:16589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370  
L:17817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:397